CLAIMS

1	1.	A	method	for	transmitting	data	packets	in	а
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- 2 lossy environment, comprising:
- 3 transmitting a first data packet with a full header;
- 4 transmitting a second data packet with a compressed
- 5 header, which compressed header includes differences
- 6 based upon the full header of the first data packet; and
- 7 transmitting a third data packet with a compressed
- 8 header, the compressed header of the third data packet
- 9 including differences in the header of the third data
- 10 packet as compared to the first data packet.
- 1 2. The method of claim 1 further including the
- 2 step of transmitting a fourth data packet, the fourth
- 3 data packet having a compressed header whose differences
- 4 are based upon the first signals' full header.

A method for receiving and interpreting data

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- 2 packets, comprising receiving a first data packet having
- 3 a full header;

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- 4 receiving a second data packet having a compressed
- 5 header whose differences are based upon the full header
- 6 of the first packet; and
- 7 receiving a third data packet having a compressed
- 8 header, which compressed header is based upon differences
- 9 with the full header of the first data packet.
- 1 4. The method of claim 3, further including the
- 2 step of receiving a fourth data packet having a
- 3 compressed header based upon the full header of the first
- 4 data packet.

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- 1 5. The method of claim 3, further comprising the
- 2 step of receiving a data packet with errors, and upon
- 3 determining that the data packet has errors, discarding
- 4 the data packet.

- 1 6. A system for transmitting data packets,
- 2 comprising:
- 3 a memory for storing computer instructions that
- 4 define compression logic, which compression logic causes
- 5 compressed data packets to be formed with differences
- 6 that are measured against a full and uncompressed data
- 7 packet; and
- 8 a processor coupled to receive and execute the
- 9 computer instructions stored within the memory to cause
- 10 the system to operate in a manner defined by the logic of
- 11 the computer instructions.
- 1 7. The system of claim 6, further including an
- 2 internal bus coupled to the memory and to the processor
- 3 to enable the processor to receive the computer
- 4 instructions from the memory.

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- 1 8. The system of claim 6 further including
- 2 transceiver circuitry for transmitting data packets over
- 3 a wireless interface.



- 9. A system for receiving compressed data packets,
- 2 comprising transceiver circuitry for receiving the data
- 3 packets, which data packets are transmitted over an air
- 4 interface;
- 5 processing circuitry for reconstructing the data
- 6 packets that are received in a compressed format, which
- 7 compressed format includes packet header information
- 8 whose differences are based upon a specified full and
- 9 uncompressed packet header; and
- 10 audio processing circuitry for converting
- 11 communication signals to sound signals to communication
- 12 signals.
- 1 10. The receiver of claim 9, further including
- 2 logic circuitry for determining whether a packet was
- 3 received in a compressed or uncompressed format.
- 1 11. The receiver of claim 10, wherein the logic
- 2 circuitry is formed to reconstruct a packet header based
- 3 upon defined differences specified within the compressed
- 4 header and a specified full header wherein the specified
- 5 full header is used as a basis for each of a plurality of
- 6 subsequently transmitted packets having compressed
- 7 headers.

- 1 12. A plurality of communication signals,
- 2 comprising a first communication signal transmitted in an
- 3 uncompressed format having a full header;
- 4 a second communication signal having a compressed
- 5 header, which compressed header specifies differences
- 6 between its header in an uncompressed format and the full
- 7 header of the first data packet; and
- 8 a third communication signal having a compressed
- 9 header, which compressed header specifies differences
- 10 between a full header for the third communication signal
- 11 and the full header of the first communication signal.
- 1 13. The communication signals of claim 12, wherein
- 2 the second and third communication signals further
- 3 include uncompressed header information for those
- 4 portions of a header that could not be compressed and for
- 5 which differences with the full header of the first
- 6 communication signal could not be specified.
- 1 14. The communication signals of claim 13, further
- 2 comprising a byte for specifying whether the
- 3 communication signal has a compressed or uncompressed
- 4 header.



- 1 15. The communication signal of claim 13, further
- 2 comprising at least one byte for identifying the Internet
- 3 protocol version format that defines the signal layout.